Cost effective factor of a midimew connected mesh network

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Abstract

Background and Objective: Hierarchical Interconnection Network (HN) is very much essential for the practical implementation of future generation Massively Parallel Computer (MPC) systems which consists of millions of nodes. It yields better performance with low cost due to reduction of wires and by exploiting the locality in the communicating traffic pattern. The main objective of this paper is to analyze the cost effective factor of Midimew connected Mesh network (MMN). Materials and Methods: A Midimew connected Mesh network (MMN) is an HN comprised of numerous basic modules, where the basic module is 2D-Mesh networks and they are hierarchically interconnected using Midimew network to assemble the higher level network. Results: This study, present the architecture of a MMN and evaluate the cost effective factor of MMN. Conclusion: MMN is promising choice for next generation MPC systems.

Author keywords

Hierarchical Interconnection Network, Massively Parallel Computer, Mesh network

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